25371 Commercentre Dr, Lake Forest, CA 92630 Tel: 1-949-540-9421 | Fax: 1-949-301-9719 Toll-Free: 1-866-484-8870

Cutaneous Lesions

Cutaneous lymphoid lesions are frequently encountered in skin biopsies. Differentiating between various benign and malignant entities is critical, as is a precise classification of cutaneous lymphoid infiltrate remains a vexing problem for clinicians and pathologists.

Genomic Testing Cooperative's comprehensive testing can resolve this clinical and diagnostic problem.

GTC's Hematology Profile Plus Provides

Comprehensive and sensitive profile of mutations distinguishing between benign and malignant process

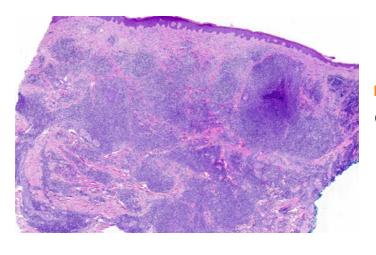
Comprehensive clonality evaluation of **B- and T-cell clonality** including heavy and light chains for B-cells, alpha, beta, gamma, and delta T-cell receptors with defining the expressed gene family so multiple lesions can be compared

Complete immunophenotyping profiling of the lymphoid cells (CD19, CD20, CD22, CD3, CD4, CD8, CD5, CD7, CD30, ...)

Detection of EBV, HPV, and HTLV1 viruses

Complete chromosomal gain or loss and translocations

Detect CAR-T T-cell lymphomas



Don't accept partial results!

Order Hematology Profile Plus on skin biopsies and resolve the diagnostic dilemma of cutaneous lymphoid lesions.

Send samples via FFPE block or unstained slides (6 to 8 plus H&E) and follow the instructions on our website.

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Cutaneous Lesions

NGS in **Melanocytic Lesions** and **Skin Sarcomas**

GTC's Solid Tumor Profile Plus Provides

Parallel DNA & RNA sequencing detects mutations, copy number changes and fusions

RNA expression profiling quantifies oncogene/tumor suppressor activity and immune markers

Provides tumor mutational burden (TMB), Microsatellite instability (MSI), UV signatures, actionable variants

Melanocytic Lesions: Benign vs Malignant Profiles

Benign nevi: isolated driver mutation (BRAF, NRAS) with low proliferative/immune expression signatures

Melanomas: accumulate progression mutations (TERT, TP53, NF1)

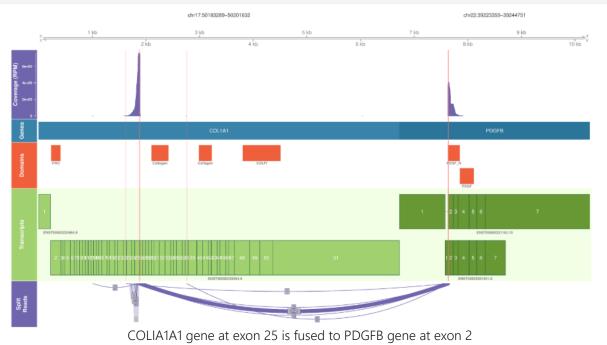
RNA expressions can classify ambiguous lesions

Skin Sarcomas

Dermatofibrosarcoma Protuberans: COL1A1–PDGFB fusion drives **PDGFB overexpression** detectable on RNAseq; predicts imatinib response

Angiosarcoma: Overexpression of angiogenesis genes (VEGFA, KDR, FLT1) + RNA-based immune signatures predict benefit from anti-VEGF agents and immunotherapy

Epithelioid Sarcoma: **SMARCB1 loss** produces characteristic **EZH2-driven transcriptional repression**; RNA profiling shows silencing of tumor suppressors, rationale for tazemetostat therapy



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